



United States
Department of
Agriculture

Soil
Conservation
Service

Casper,
Wyoming



Wyoming Water Supply Outlook

May 1, 1985



FOREWORD

HOW FORECASTS ARE MADE

Most of the major drainage in the western United States originates as runoff. This runoff accumulates in the vegetation during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Precipitation is based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture, and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narrative descriptions of current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff become known. For this reason forecasts are issued that reflect three future precipitation conditions - Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

FOR MORE INFORMATION

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage AK 99504
Arizona	Room 3008, Federal Bldg., 230 North First Ave., Phoenix AZ 85025
Colorado (New Mexico)	2490 West 26th Ave., Denver CO 80211
Idaho	304 North 8th Street, Room 443, Boise ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland OR 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City UT 84147
Washington	360 U.S. Court House, Spokane WA 99201
Wyoming	Federal Bldg., Room 3124, 100 East 'B' St., Casper WY 82601

In addition to state reports, a Water Supply Outlook Report for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 514, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include - Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia - The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory - Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1, Alberta, Saskatchewan, and N.W.T. - The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Wyoming Water Supply Outlook

AND

**FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS**

Issued by

**Peter C. Myers
Chief
Soil Conservation Service
Washington, D.C.**

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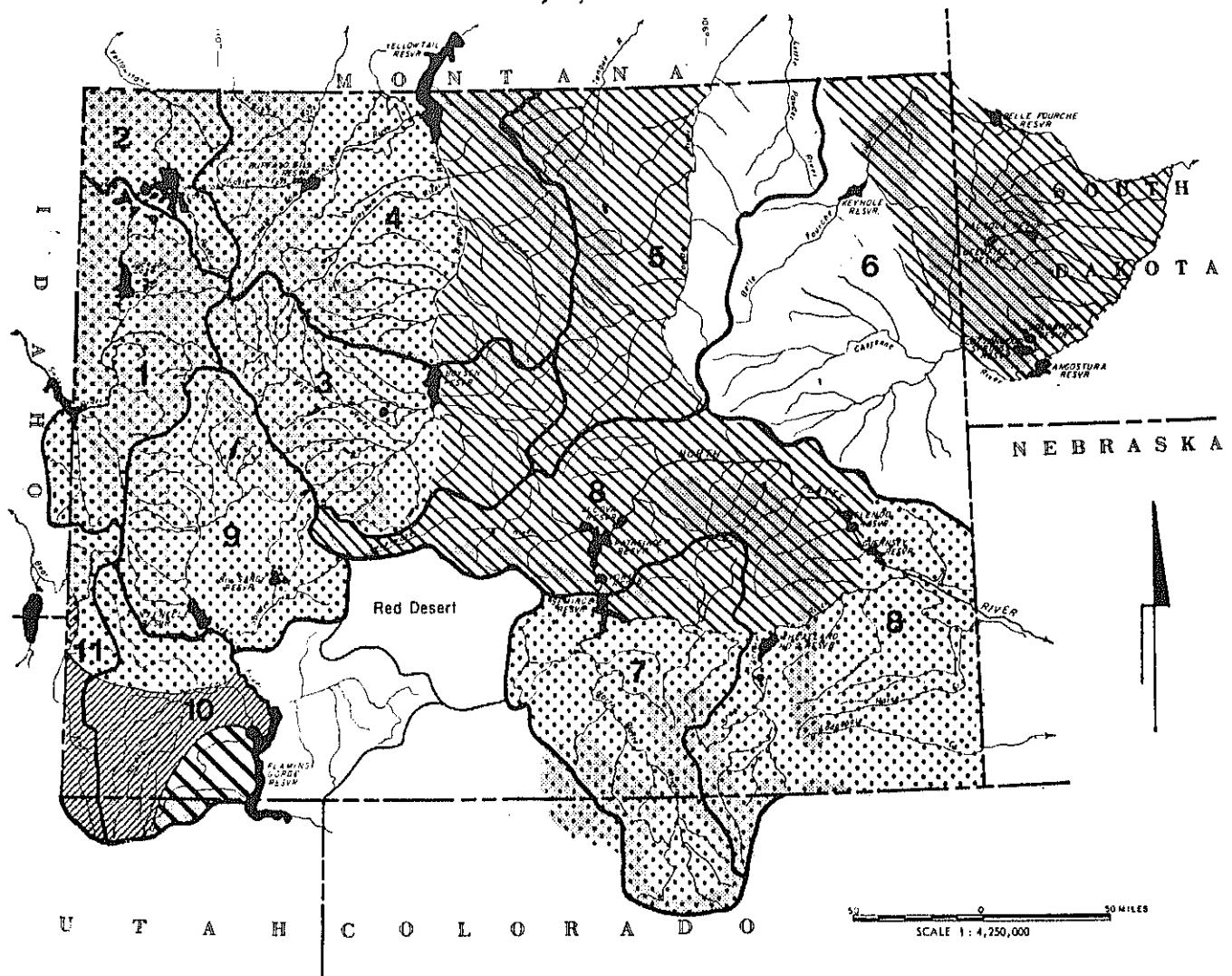
Prepared by

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STREAMFLOW PROSPECTS FOR WYOMING

Spring and Summer Period

May 1, 1985



LEGEND

- | | | |
|---|----------|--------------------|
| 1. Snake River Basin | >130% | Much Above Average |
| 2. Upper Yellowstone and Madison River Basins | 110-130% | Above Average |
| 3. Wind River Basin | 90-110% | Near Average |
| 4. Bighorn River Basin | 70-90% | Below Average |
| 5. Powder and Tongue River Basins | <70% | Much Below Average |
| 6. Belle Fourche and Cheyenne River Basins | | |
| 7. Upper North Platte and Little Snake River Basins | | |
| 8. Lower North Platte, Sweetwater, and Laramie River Basins | | |
| 9. Upper Green River Basin | | |
| 10. Lower Green River Basin | | |
| 11. Upper Bear River Basin | | |

GENERAL OUTLOOK

AN EARLY SEASON OUTLOOK FOR ABUNDANT STREAMFLOW THIS SUMMER HAS WITHERED IN THE DRY TREND OF LATE WINTER AND HEAT OF EARLY SPRING. ONLY UNSEASONABLY HEAVY RAINFALLS CAN OVERCOME PRESENT DRYNESS.

SNOWPACK:

Only the North Platte drainage has escaped significant loss during April, finishing at 19 percent below average on May 1. The Powder River Basin is hardest hit with hot droughty weather slashing the April 1 snow at 27 percent below a current 62 percent below normal. Other watersheds slipped by about 10 percent, leaving snowpacks of 19 to 38 percent below average. Only remnants of snowpacks remain below 9,000 feet elevation in the Wind and Big Horn Mountains.

PRECIPITATION:

April precipitation was greater than 50 percent below normal in many areas to near normal in extreme northwestern and southeastern Wyoming. A very dry area occurred from the Big Horn Mountains through the Wind River range. Less than 0.1 inch was received at Cody and Dubois and also at a few locations in the Green and Upper North Platte drainages. These amounts were greater than 90 percent below normal.

April recordings caused seasonal comparisons to continue to plunge. These statistics followed the April trend. The Big Horn and Wind drainages were very dry (25 to 75 percent below normal). The Yellowstone, Snake, Niobrara, and Lower North Platte were from 25 percent below to near normal. Elsewhere, comparisons range 25 to 50 percent below normal.

RESERVOIR STORAGE:

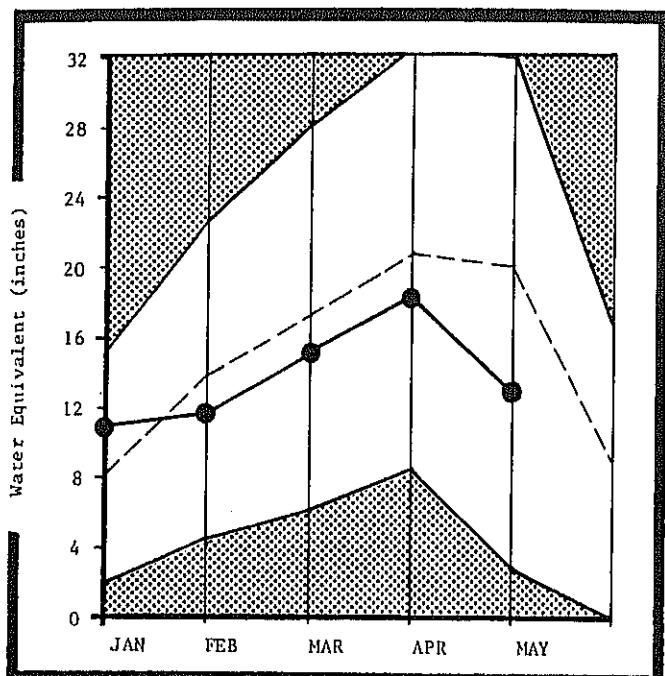
Abundant supplies are common in most of Wyoming's reservoirs, assuring ample supply for their uses this season. Seminoe is highest with over twice usual May 1 volume. Jackson Lake is very low during reconstruction work, and Fontenelle levels are being lowered in view of safety concerns.

STREAMFLOW FORECASTS:

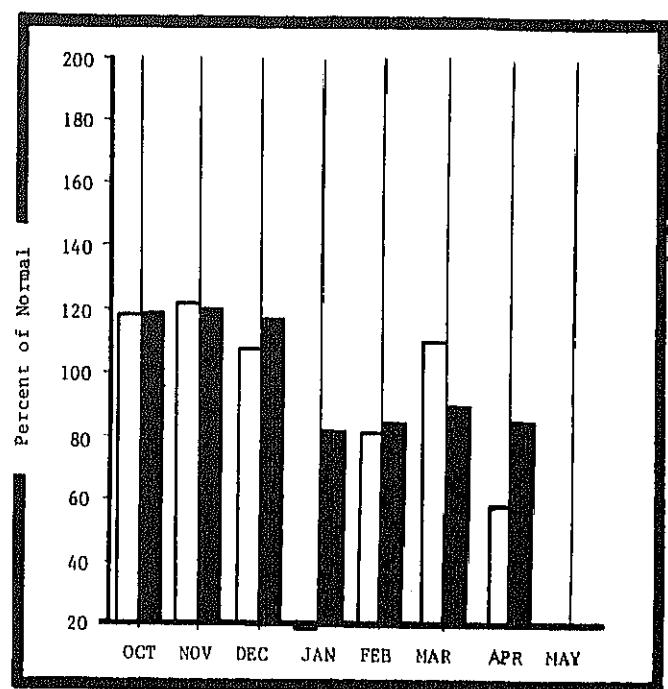
The unusual winter dryness and early spring high temperatures have not only produced poor snowpacks, but are resulting in runoff peaking 2 to 4 weeks earlier than usual. Early summer streamflows for direct diversion may be very short as a result. April streamflows on the Upper Green have been three times normal, for example. With the exception of southwestern Wyoming, forecasts have remained stable or decreased as much as 30 percent compared to average of one month ago. Thirty percent below average forecasts cover the Big Horn Basin, while the North Platte continues at 10 to 14 percent below normal.

SNAKE RIVER BASIN

MOUNTAIN SNOWPACK*



PRECIPITATION*



*Based on selected stations

*Based on selected stations

Maximum [Shaded Box]

Average [Dashed Box]

Minimum [Shaded Box]

Current [Solid Line with Circle]

Monthly precipitation [White Box]

Year to date precipitation [Black Box]

WATER SUPPLY OUTLOOK:

Streamflow prospects have again diminished with another month of dry and hot weather precluding normal snowpacks. The 15 to 21 percent below normal forecasts can be improved by only very heavy spring rainfalls.

Jackson Lake is quite low during reconstruction, but Grassy and Palisades are well above usual.

SNAKE RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR			Streamflow	PAST RECORD	
	11,000 Ac-Ft.	1 Pct. Ave.	Forecast	Forecast	1,000 Acre-Feet	Last Yr.**
SNAKE RIVER near Moran (1)	750	85		April-Sept.		880
SNAKE RIVER above Palisades near Alpine (1)	2,260	83		April-Sept.		2,730
SNAKE RIVER at Heise, ID (2)	2,940	79		May-Sept.		3,720
PACIFIC CREEK at Moran	139	80		April-Sept.		174
GREYS RIVER above Palisades	300	76		April-Sept.		393
SALT RIVER above Palisades near Etna	310	79		April-Sept.		394
PALISADES RESERVOIR INFLOW (1)	3,150	83		April-Sept.		3,793
SWIFT CREEK near Afton	37.0	80		May-Sept.		46.0

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

** Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

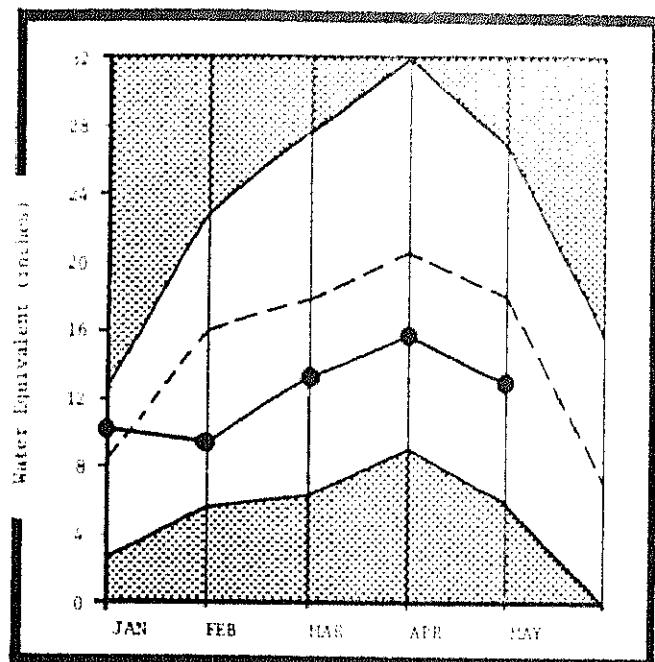
River Basin and/or Sub-Watershed	No. of Snow Sites	This Yr. Snow as Pct of Last Yr/Average
Snake abv. Jackson Lake	2	92 / 81
Pacific Creek	-	(No Measurements)
Gros Ventre	3	68 / 63
Hoback River	6	78 / 71
Greys River	2	66 / 64
Salt River	4	24 / 31
Snake River above Palisades	15	71 / 68

RESERVOIR STORAGE (Thousand Ac. Ft.)

Reservoir	Usable Capacity	This Year	Last Year	Ave.
Grassy Lake	15.11	13.61	14.41	11.01
Jackson Lake	624.41	75.01	498.51	517.61
Palisades	1,200.01	1147.61	657.21	718.51

UPPER YELLOWSTONE AND MADISON RIVER BASINS

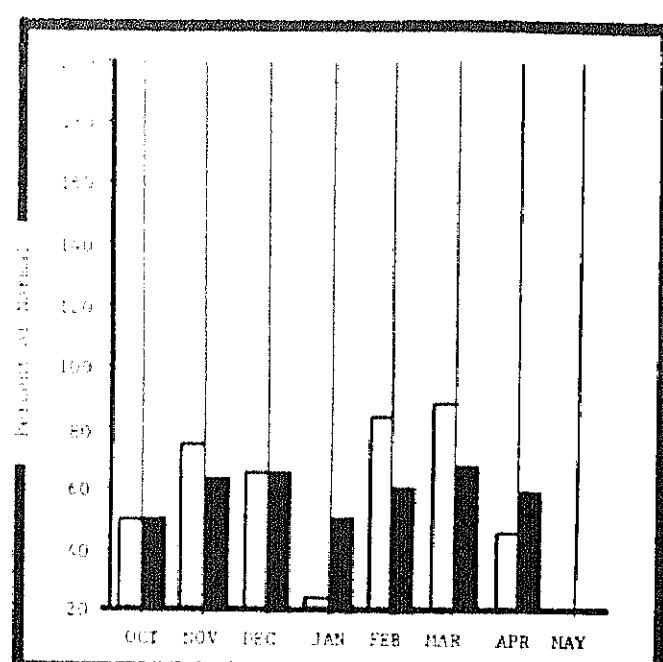
MANAN CREEK*



*Based on selected stations

Maximum Average
 Minimum Current

• C R I C K *



*Based on selected stations

Monthly precipitation Year-to-date precipitation

WATER SUPPLY OUTLOOK:

Snowpacks have diminished, resulting streamflows are to be about 20 percent below normal.

YELLOWSTONE-MARTISON RIVER BASIN

STREAMFLOW FORECASTS

(1) Observed flow plus change in storage in Hebgen Lake.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980,

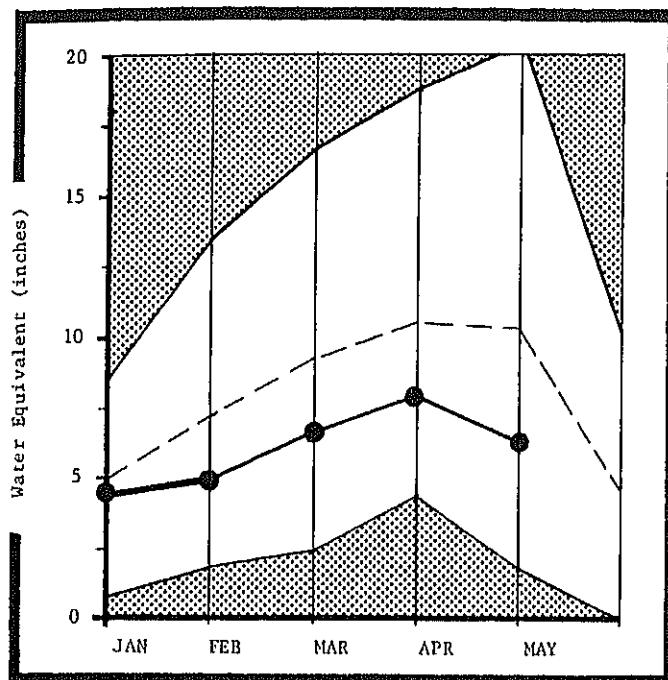
SUMMARY of SNOW MEASUREMENTS

RESERVOIR STORAGE (Thousand Ac. Ft.)

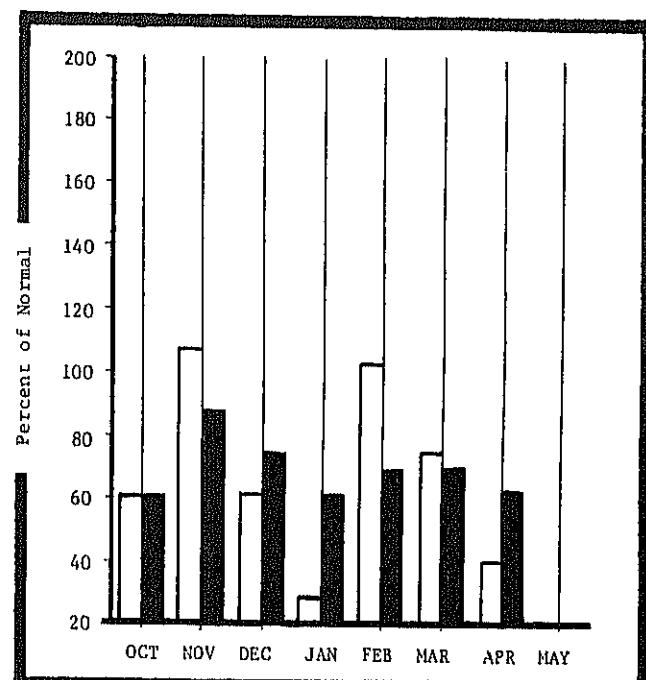
River Basin and/or Sub-Watershed	INo.	This Yr.	Snow Snow Water as Pct of Site Last Yr Average	Reservoir	I Usable Capacity	Usable Storage This Last Year Year Ave.	
Madison (in Wyoming)	12	91	77				
Yellowstone	13	86	63	- No Reservoirs -			

WIND RIVER BASIN

MOUNTAIN SNOWPACK*



PRECIPITATION*



*Based on selected stations

*Based on selected stations

Maximum [Shaded Bar]

Average [Dashed Line]

Minimum [Solid Bar]

Current [Solid Line with Circle]

Monthly precipitation [White Bar]

Year-to-date precipitation [Black Bar]

WATER SUPPLY OUTLOOK:

A very dry month has reduced snowpacks to one-half of usual. Forecasts of runoff continue, however, at about 25 percent below normal. Reservoir storage is very good.

WIND RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast	PAST RECORD	
	Forecast	1,000 Ac-Ft.		Last Yr.	Average
WIND RIVER near Dubois	85.0	80	April-Sept.		106
WIND RIVER at Riverton (1)	500	74	April-Sept.		678
WIND RIVER below Boysen (2)	890	77	April-Sept.		1,163
BULL LAKE CREEK near Lenore (3)	148	79	April-Sept.		188
LITTLE POPO AGIE near Lander	40.0	75	April-Sept.		53.0

- (1) Observed flow plus change in storage in Bull Lake, Pilot Butte Reservoir and diversion to Wyoming canal.
 (2) Observed flow plus change in storage in Bull Lake, Pilot Butte Reservoir, and Boysen Reservoir; plus diversion to Wyoming canal.
 (3) Observed flow plus change in storage in Bull Lake.
 ** Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
 + Period of average 1961-1980.

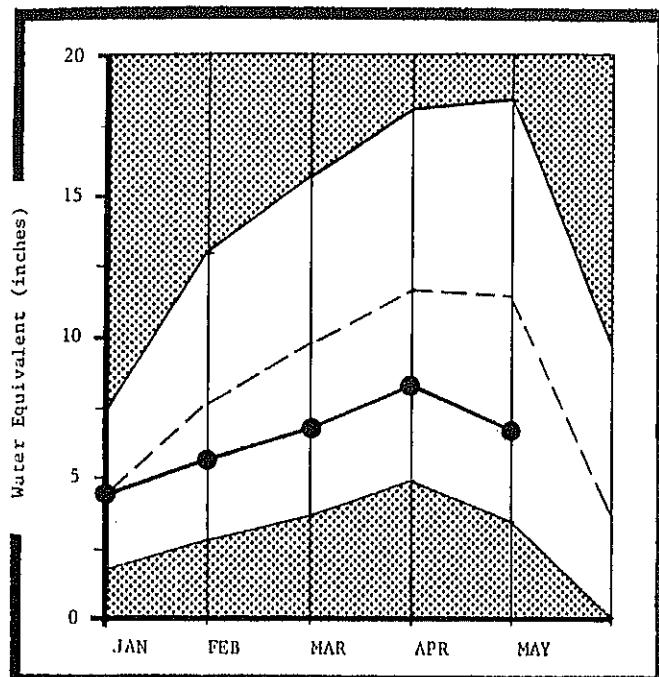
SUMMARY of SNOW MEASUREMENTS

RESERVOIR STORAGE (Thousands Cu. Ft.)

River Basin and/or Sub-Watershed	No.	This Yr.	Snow Water as Pct of Site	Last Yr	Average	Reservoir	Usable Capacity	Usable Storage This Year	Last Year	Ave.
Upper Wind River	9	58		50		Bull Lake	151.8	87.0	101.1	79.8
Pogo Agie	3	41		57		Pilot Butte	31.6	22.0	28.7	26.7
Wind River above Boysen	16	48		51		Boysen	549.9	291.0	299.5	250.11

BIGHORN RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

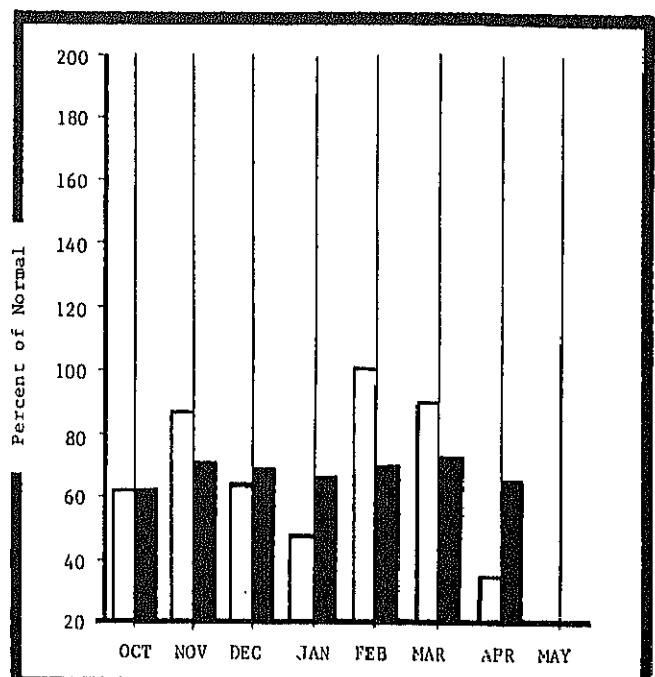
Maximum

Average

Minimum

Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation

Year-to-date precipitation

WATER SUPPLY OUTLOOK:

Twenty-five to thirty-five percent below normal streamflows are expected in this very dry basin, based upon the poor snowpacks which are only one-half of usual for May 1. Abundant reservoir stored water will be available for this season's use.

BIGHORN RIVER EASTN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast	PAST RECORD	
	Forecast	1,000 Ac-Ft.		1 Pct. Ave.	1,000 Acre-Feet
WIND RIVER below Boysen Reservoir (1)	890	77	April-Sept.		1,163
TENSLEEP CREEK near Tensleep	52.1	65e	April-Sept.		(Disc.)
MEDICINE LODGE CREEK near Hyattville	13.5	66e	April-Sept.		(Disc.)
SHELL CREEK near Shell	53.9	69	April-Sept.		78.0
GREYBULL RIVER at Meeteetse	150	70	April-Sept.		215
SHOSHONE RIVER below Buffalo Bill Dam (2)	600	71	April-Sept.		845
CLARK FORK near Belfry	455	75	May-Sept.		606
SOUTH FORK SHOSHONE RIVER near Valley	200	72	April-Sept.		278
NOWOOD RIVER near Tensleep	49.0	69	March-Sept.		71x

- (1) Observed flow plus change in storage in Bull Lake, Pilot Butte, and Boysen Reservoir; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Hart Mountain Canal.

* Less than 20 year average.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

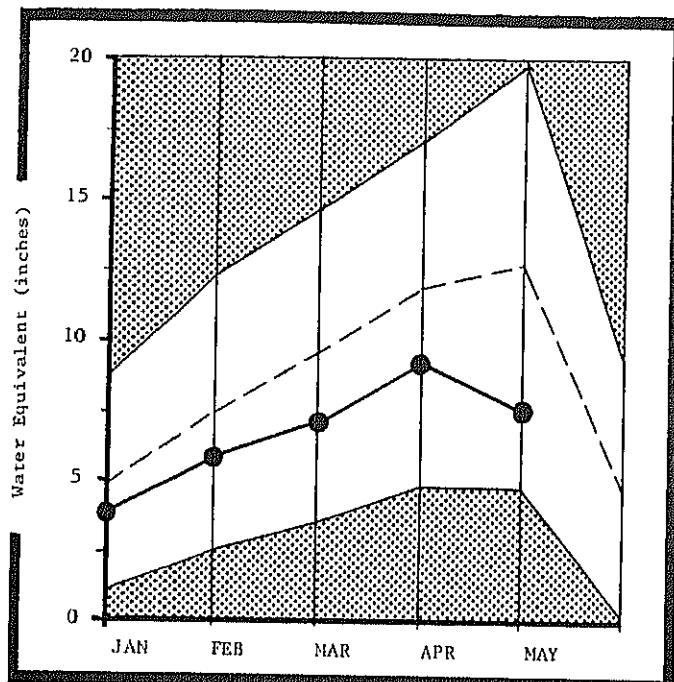
+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

RESERVOIR STORAGE (Thousand Ac. Ft.)

POWDER AND TONGUE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

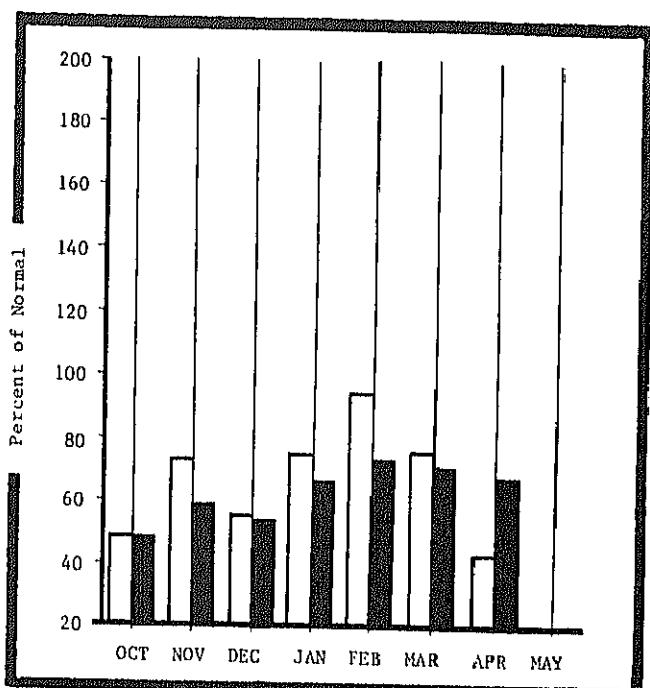
Maximum [Shaded Box]

Average [Dashed Line]

Minimum [Shaded Box]

Current [Solid Line with Circle]

PRECIPITATION*



*Based on selected stations

Monthly precipitation [White Box]

Year-to-date precipitation [Black Box]

WATER SUPPLY OUTLOOK:

Little precipitation and hot weather have seriously eroded the mountain snowpack of water reserve (now at 62 percent below normal). Streamflows will likewise be reduced 30 to 40 percent below normal and will peak much earlier in the irrigation season.

POWDER AND TONGUE RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow	PAST RECORD	
	Forecast	1,000 Ac-Ft.	Forecast	1,000 Ac-Ft.	Last Yr.**
	1 Pct. Ave.	Period		Average	1
TONGUE RIVER near Dayton (1)	88.0	72	April-Sept.		123
MIDDLE FORK POWDER RIVER near Barnum	14.0	65	April-Sept.		21.6
NORTH FORK POWDER RIVER near Hazelton	7.0	66	April-Sept.		10.6
CLEAR CREEK near Buffalo	25.0	63	April-Sept.		40.0
ROCK CREEK near Buffalo	16.9	66	April-Sept.		25.4
PINEY CREEK at Kearny	35.5	65	April-Sept.		54.8
LITTLE BIGHORN at Hardin, MT	94.3	60	April-Sept.		182

(i) Observed flow plus diversion to Highline Ditch.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

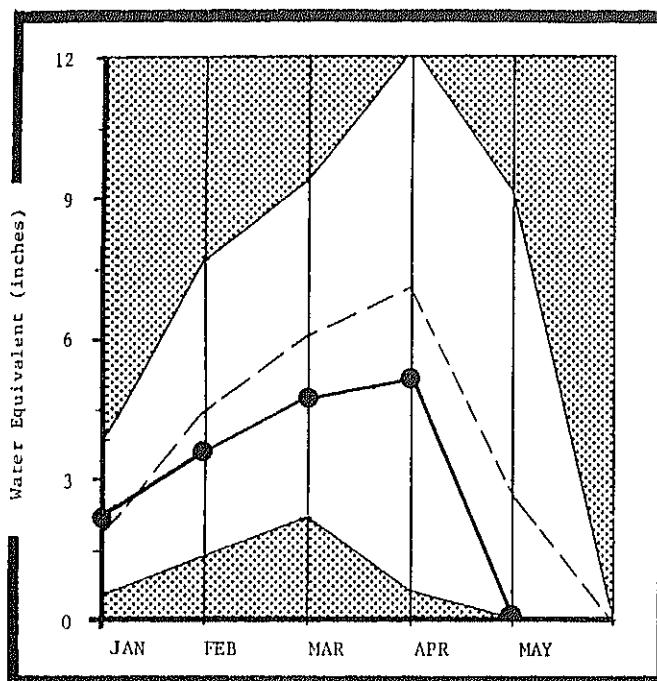
SUMMARY of SNOW MEASUREMENTS

River Basin and/or Sub-Watershed	INo.	This Yr.	Snow ISnow Water as Pct of ISitel Last Yr/Average
Tongue River	13	54	66
Goose Creek	4	54	66
Clear Creek	-	No Snow	
Crazy Woman Creek	3	46	40
Powder River Basin	8	33	37

RESERVOIR STORAGE (Thousand Ac. Ft.)

BELLE FOURCHE AND CHEYENNE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

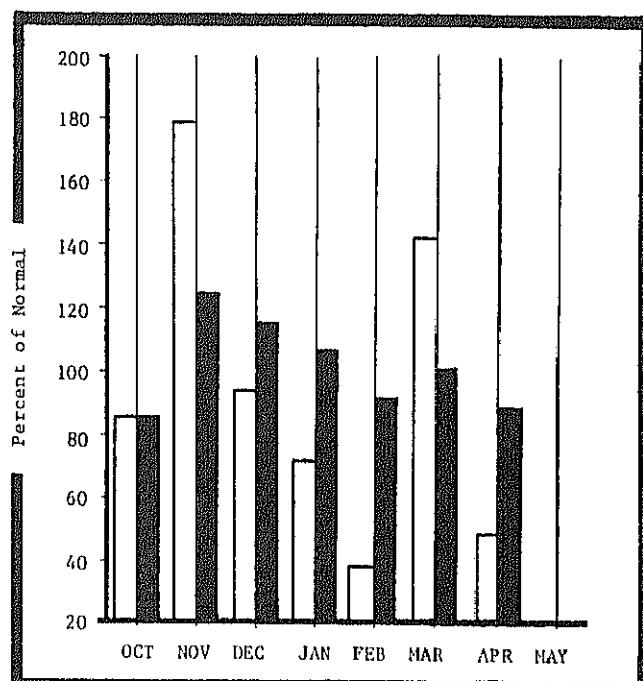
Maximum 

Average 

Minimum 

Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation 

Year to date precipitation 

WATER SUPPLY OUTLOOK:

Droughty trend of north and eastern Wyoming continues projecting early and reduced streamflows. Reservoir water users will have a good supply, however, this season.

BELLE FOURCHE & CHEYENNE RIVER WATERSHED

STREAMFLOW FORECASTS

SUMMARY of SNOW MEASUREMENTS

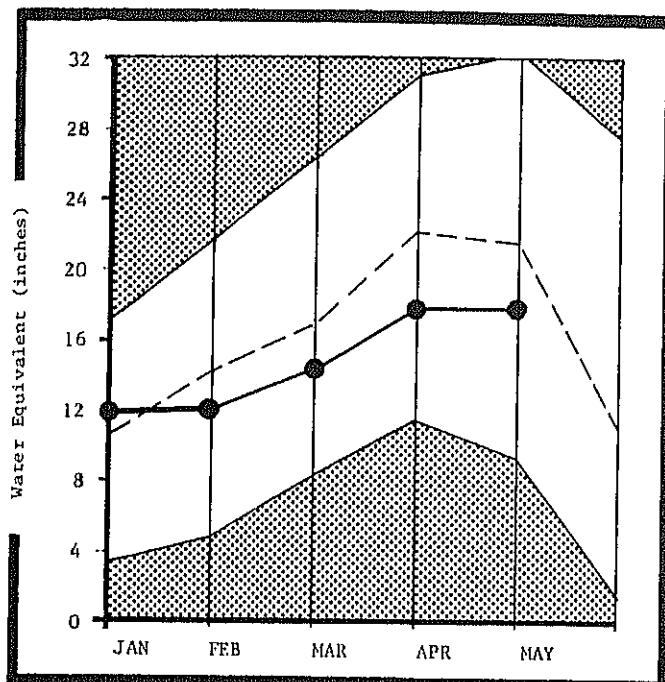
River Basin and/or Sub-Watershed	No. 1 This Yr, Snow Snow Water as Pct of Site Last Yr Average
Belle Fourche	- 1 No Snow

RESERVOIR STORAGE (Thousand Ac. Ft.)

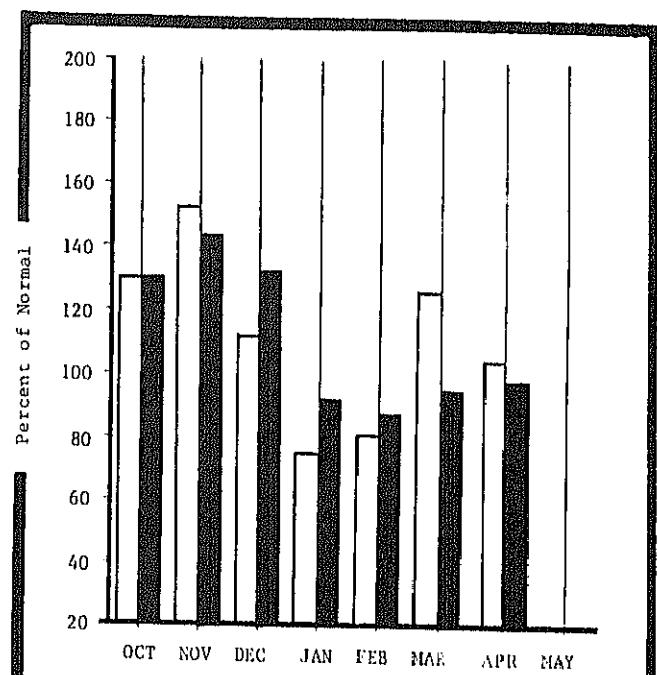
Reservoir	Usable Storage				Ave.
	Capacity	This Year	Last Year	Ave.	
Keyhole	190.41	74.51	59.11	129.38	
Belle Fourche	185.21	168.41	152.31	157.21	
Angostura	86.21	63.01	81.91	77.01	
Deerfield	15.11	15.01	11.51	14.71	
Pactola	55.01	55.01	54.61	52.21	
Shadehill	81.51	78.01	63.51	66.81	

UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

MOUNTAIN SNOWPACK*



PRECIPITATION*



*Based on selected stations

*Based on selected stations

Maximum

Average

Minimum

Current

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack comparisons remained with little change during April. The 14 percent below normal condition predicts streamflows in the 8 to 16 percent below normal. Reservoirs' storage is in excellent supply.

UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS
STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast	PAST RECORD	
	1,000 Ac-Ft.	Pct. Ave.		Period	1,000 Acre-Feet
NORTH PLATTE RIVER near Northgate	225	86	April-Sept.		262
NORTH PLATTE RIVER near Sinclair	853	82	April-Sept.		710
ENCAMPMENT RIVER near Encampment	140	90	April-Sept.		156
ROCK CREEK near Arlington	46.5	81	April-Sept.		57.6
LITTLE SNAKE RIVER near Dixon (1)	295	92	April-Sept.		320
LITTLE SNAKE RIVER near Slater, CO (1)	142	90	April-Sept.		158

(1) Observed flow plus transbasin diversion.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980,

SUMMARY of SNOW MEASUREMENTS

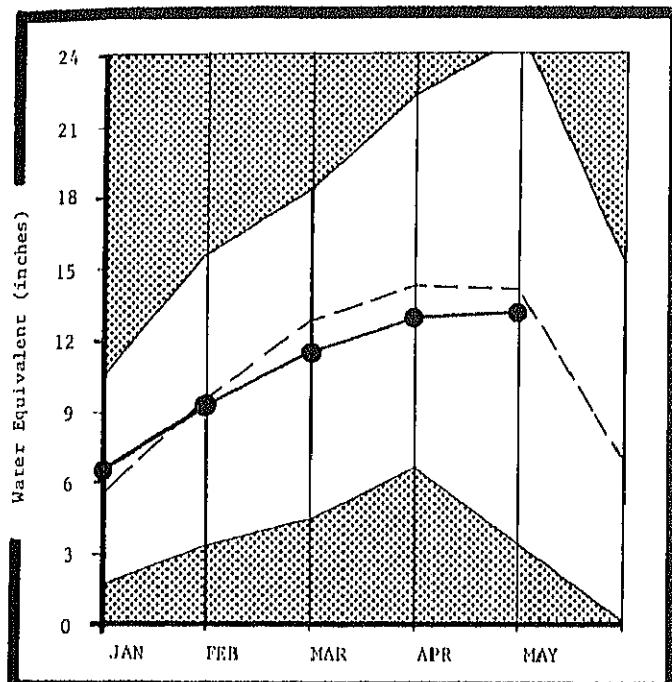
River Basin and/or Sub-Watershed		No. Site	This Yr. Snow Snow Water as Pct of Last Yr	Average
Upper North Platte		14	67	92
Encampment		3	69	90
Brush Creek		3	65	94
Medicine Bow & Rock Creeks		3	79	88
North Platte abv. Seminole		21	67	85
Little Snake River		8	69e	90e

RESERVOIR STORAGE (Thousand Ac. Ft.)

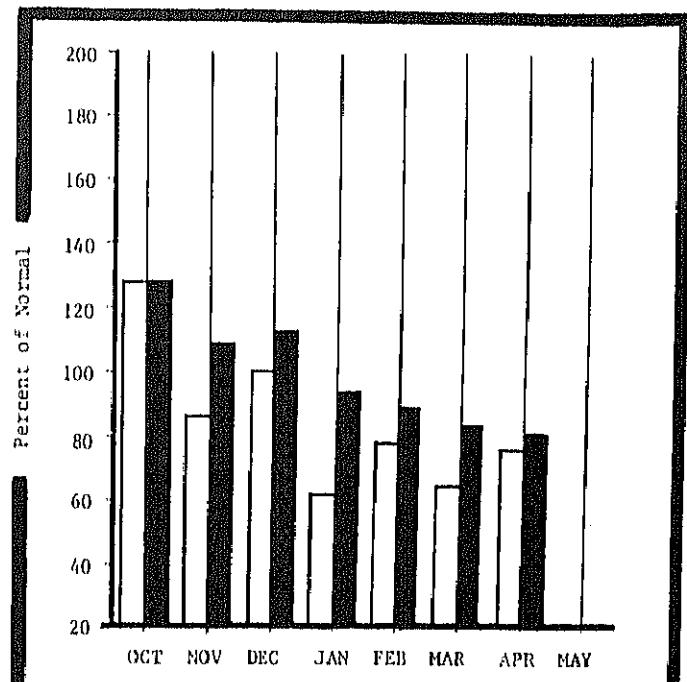
Reservoir	Usable Capacity	This Year	Last Year	Usable Storage Ave.
Seminole	1,017.3	842.0	635.8	358.2

LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

MOUNTAIN SNOWPACK*



PRECIPITATION*



*Based on selected stations

*Based on selected stations

Maximum [hatched bar]

Average [dashed line]

Minimum [solid bar]

Current [solid line with dot]

Monthly precipitation [white bar]

Year-to-date precipitation [solid bar]

WATER SUPPLY OUTLOOK:

Water supplies on the Laramie River are reduced from one month ago by about 10 percent, except for the Laramie still holding at 17 percent below normal. Runoff is early in the Laramie Range and snowpacks are less than one-half of usual. Reservoir storage amounts continue very good.

LOWER NORTH PLATTE RIVER WATERSHED

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast	PAST RECORD	
	11,000 Ac-Ft.	Pct. Ave.		Period	Last Yr. ^{xx}
NORTH PLATTE RIVER near Sinclair	853	82	April-Sept.		710
SWEETWATER RIVER near Alcova	33.2	45	April-Sept.		73.7
DEER CREEK at Glenrock	30.0	68	March-July,		43.9
LaPRELE CREEK above Reservoir near Douglas .	19.5	69	April-July,		28.2
LARAMIE RIVER & PIONEER CANAL near Woods . .	110	83	April-Sept.		132
LITTLE LARAMIE RIVER near Filmore	50.0	77	April-Sept.		65.1

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.

^{xx} Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

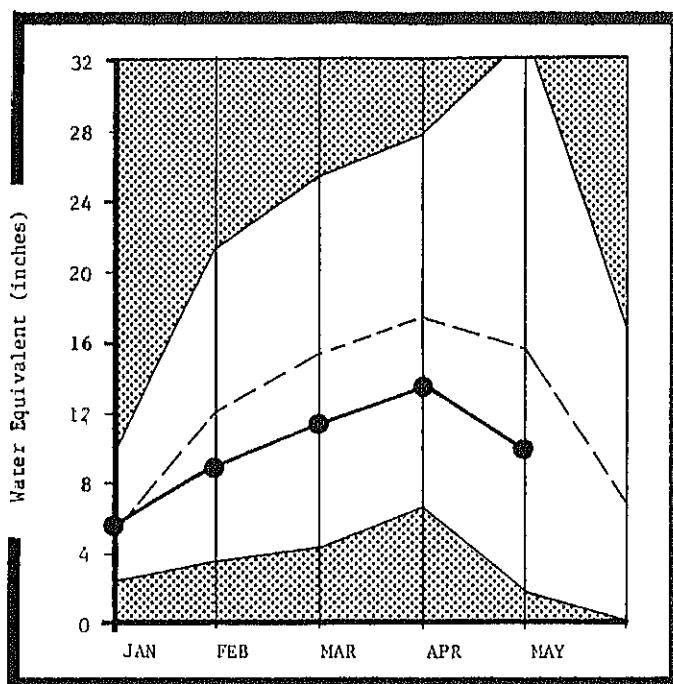
River Basin and/or Sub-Watershed	No.	This Yr.	Snow Snow/Water as Pct of Site/Last Yr/Average
Sweetwater	3	38	40
Deer & LaPrele Creeks	2	27	41
N. Platte abv. Laramie River	15	66	83
Little Laramie River	4	51	65
Upper Laramie River	8	66	89
Laramie River Total	16	56	78
Platte River in Wyoming	57	63	81

RESERVOIR STORAGE (Thousand Ac. Ft.)

Reservoir	Usable Capacity	Usable Storage This Year	Last Year	Ave.
Seminoe	1,017.31	842.01	635.81	358.21
Pathfinder	1,015.51	875.01	900.21	587.71
Alcova	30.71	28.01	11.41	24.91
Glendo	783.71	475.01	428.11	465.91
Guernsey	45.21	31.01	30.61	34.51
Wheatland #2	98.91	86.01	70.61	55.91
PROJECT WATER				
North Platte Project	1,016.11	1092.01	1025.01	--
Kendrick Project	1,201.61	1053.01	1019.31	--
Glendo Project Users	454.31	155.01	9.21	--

UPPER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

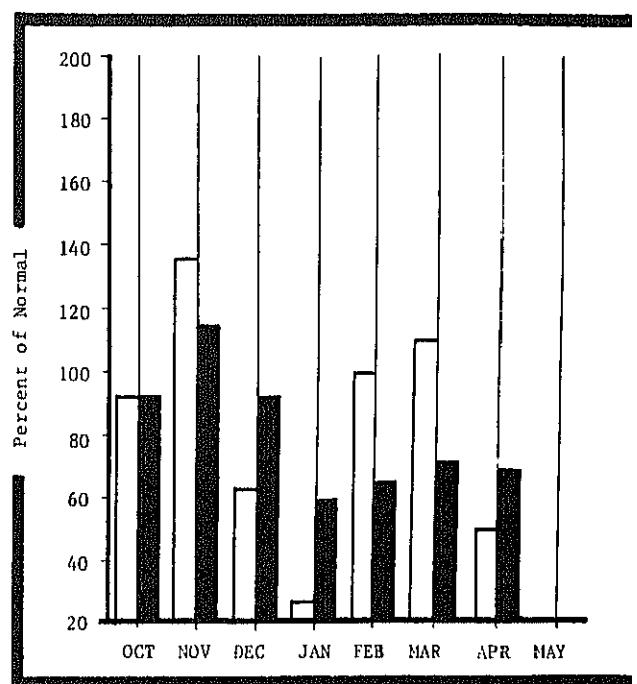
Maximum 

Average 

Minimum 

Current 

PRECIPITATION*



*Based on selected stations



Monthly precipitation



Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpacks averaging 37 percent below normal are supporting streamflow forecasts at about 20 percent below normal. Reservoir storage is excellent at Big Sandy, but Fontenelle is being lowered as a safety precaution.

UPPER GREEN RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast	PAST RECORD			
	Forecast			Forecast Period	1,000 Acre-Feet		
	1,000 Ac-Ft.	1 Ft. Ave.			Last Yr.**	Average	
GREEN RIVER at Warren Bridge	261	80	April-Sept.		326		
FONTENELLE Reservoir Inflow	750	86	April-July		869		
LaBARGE CREEK at LaBarge Meadows	7.2	81	April-Sept.		8.9		
BIG SANDY near Big Sandy	50.0	82	April-Sept.		61.1		

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

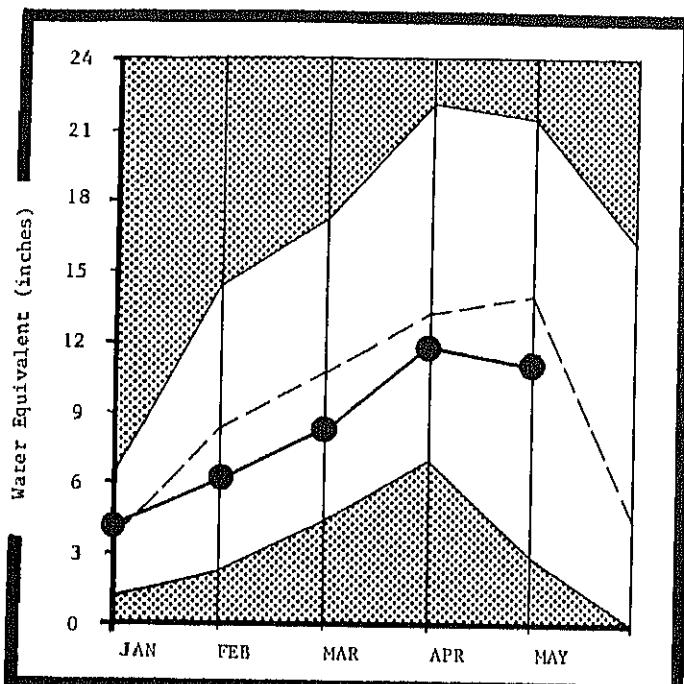
River Basin and/or Sub-Watershed	No. 1 This Yr.	Snow 1 Snow Water as Pct of Site Last Yr	Average 1
Green River abv Warren Bridge	4	65	55
Upper Green (West Side)	6	75	72
New Fork	3	60	52
	2	66	65
Intenelle	11	70	63

RESERVOIR STORAGE (Thousands Cu. Ft.)

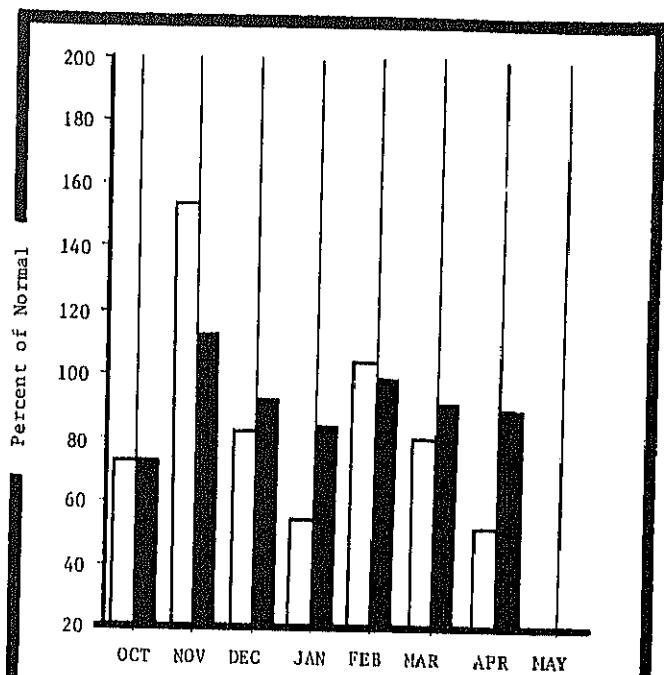
Reservoir	Usable	Usable	Storage	
	Capacity	This	Last	
		Year	Year	Ave.
Eden	11.81	--	11.71	4.51
Big Sandy	38.31	31.01	25.01	23.91
Fontenelle	344.81	145.01	161.01	161.51

LOWER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



PRECIPITATION*



*Based on selected stations

*Based on selected stations

Maximum

Average

Minimum

Current

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

The state's best prospects for summer streamflow exist here at 9 to 40 percent above normal. The heavy snows of the Uinta Range have persisted through the winter at above to now near normal conditions.

LOWER GREEN RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast	PAST RECORD	
	1,000 Ac-Ft.	1 Pct. Ave.		Period	Last Yr, **
FONTENELLE Reservoir Inflow	750	86	April-July		869
HAMS FORK below Pole Creek, near Frontier .	56.0	78	April-Sept.		71.3
GREEN RIVER near Green River (1)	809	75	April-Sept.		1,079
BLACK FORK RIVER near Milburne	95.0	109	May-July		87
HENRY'S FORK RIVER near Linwood, UT	60.0	140	May-July		43
FLAMING GORGE Inflow (1)	1,100	88	April-July		1,248

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

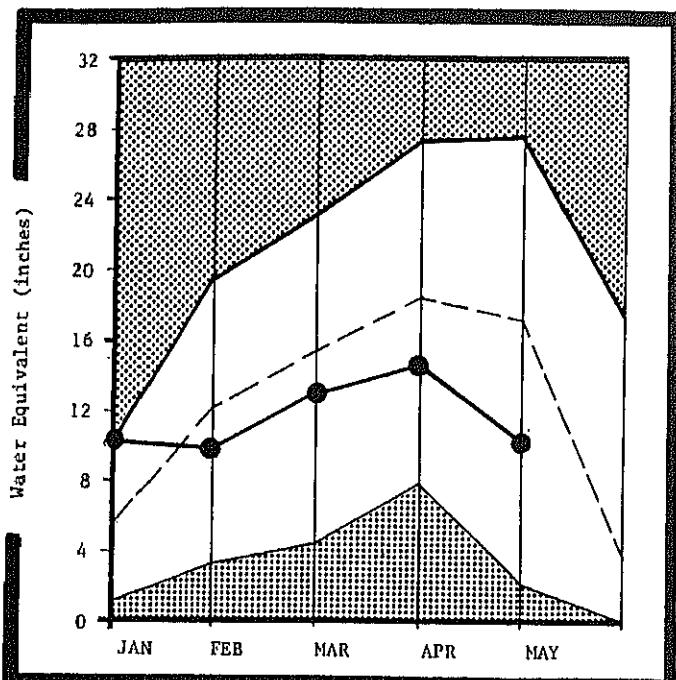
River Basin and/or Sub-Watershed	No.	This Yr.	Snow Snow	Water as Pct of Site	Last Yr	Average
Hams Fork	3	72	71			
Blacks Fork	4	55	72			
Henry's Fork	1	104	226			
Green River above Flaming G.	14	71	66			

RESERVOIR STORAGE (Thousand Ac. Ft.)

Reservoir	Usable Capacity	This Year	Last Year	Ave.
Flaming Gorge	3,749,013	109,013	67,01	--
Viva Naughton	36,01	-	8,51	26,21

UPPER BEAR RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

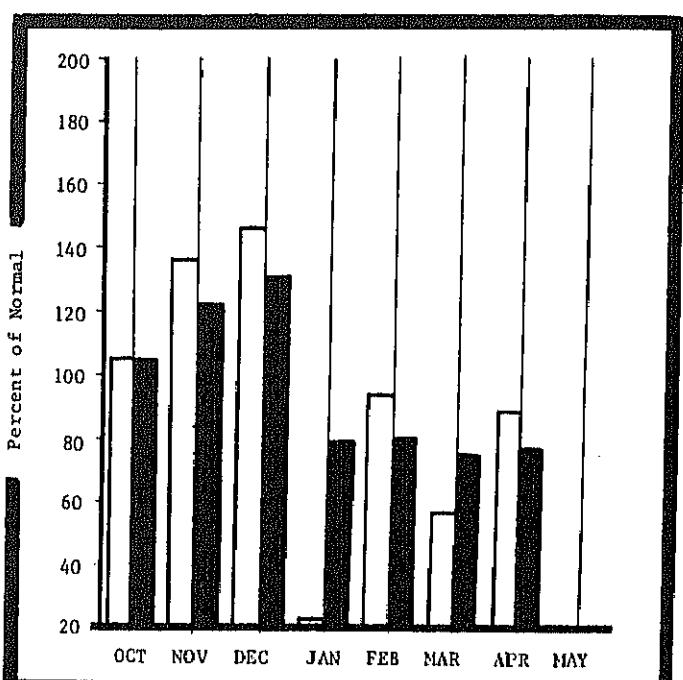
Maximum 

Average 

Minimum 

Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation 

Year to date precipitation 

WATER SUPPLY OUTLOOK:

Bear River flow volumes promise to be a little above normal, providing good supply to water users. The Smith's and Thomas Fork, however, continue at about 25 percent below normal expected flows.

BEAR RIVER BASIN

STREAMFLOW FORECASTS

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

River Basin and/or Sub-Watershed	I	No. I	This Yr.	Snow I	Snow/I	Water as Pct of Site/I	Last Yr/I	Average/I
Upper Bear River	I	3	I	41	I	51	I	I
Smith & Thomas Forks	I	4	I	54	I	60	I	I
Bear River Total	I	10	I	57	I	62	I	I

RESERVOIR STORAGE (Thousands Ac. Ft.)

Reservoir	Usable Capacity	This Year	Last Year	Usable Storage Ave.
Woodruff Narrows	55.81	55.81	35.0	--

SNOW COURSE DATA

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
WYOMING						
AFTON RANGER STATION	6240	4/30/85	0	.0	.0	
ALBANY	9120	4/25/85	25	7.6	21.3	13.9
BALD MOUNTAIN	9380	4/25/85	58	18.7	34.2	29.4
BALD MOUNTAIN SNOTEL	9380	5/01/85	---	15.7	—	—
BASE CAMP SNOTEL	7030	5/01/85	---	6.7	14.2	—
BATTLE MOUNTAIN	7440	4/30/85	0	.0	14.8	—
BEARTooth LK. SNOTEL	9280	5/01/85	---	16.3	19.3	—
BEAR TRAP Mtns. AIR	7900	4/25/85	14	3.5	—	7.0
BEAR TRAP Mtns. SNTL	7900	5/01/85	---	0	10.5	—
BIG GOOSE	7760	4/25/85	19	4.7	14.6	9.8
BIG PARK	8620	4/25/85	46	15.8	22.8	21.9
BIG SANDY OPENING	9080	4/30/85	25	9.5	14.6	14.6
BIG SANDY OPEN-SNTL	9080	5/01/85	---	5.1	—	—
BIG MARCH SPRINGS	6370	4/28/85	5	1.4	4.6	6.0
BIG MARCH SPRINGS SNOTEL	9780	5/01/85	---	21.5	23.7	—
BLACKWATER SNOTEL	8650	5/01/85	---	20.1	26.6	—
BLIND BULL SNOTEL	8620	4/27/85	---	21.9	19.5	14.1
BLUE RIDGE	9620	4/25/85	58	17.4	25.0	22.6
BONE SPRINGS DIVIDE	9350	4/25/85	---	14.1	22.3	—
BONE SPRGS. DIV SNTL	9350	5/01/85	---	2.7	12.7	7.2
BOXELDER	7280	4/30/85	6	18.0	28.8	25.1
BROOKLYN LAKE	10220	4/25/85	52	24.3	32.6	—
BROOKLYN LK. SNOTEL	10220	4/30/85	---	0	3.3	2.7
BRYAN FLAT	6420	4/29/85	0	.0	16.0	11.7
BUCK CREEK	7700	4/30/85	13	5.0	15.3	9.9
BURGESS RANGER STA	7880	4/30/85	21	6.0	10.6	19.0
BURGESS JCT. SNOTEL	7880	5/01/85	---	8.1	11.7	14.7
BURRBOUGH'S CREEK	8750	4/28/85	24	8.1	33.8	10.9
BURRBOUGH'S CREEK SNOTEL	8750	5/01/85	---	0	11.6	18.7
BUTTER HILL	7880	4/29/85	31	14.8	—	—
CANYON SNOTEL	7940	5/01/85	---	8.1	9.2	15.4
CANYON (OISC.)	7940	4/30/85	30	11.3	9.2	15.4
CHARTER MOUNTAIN	7950	4/28/85	0	0	13.0	6.9
CASPER MOUNTAIN	7850	4/29/85	42	14.8	22.0	18.8
CASPER Mtn. SNOTEL	7850	4/30/85	---	9.7	25.0	—
CASTLE CREEK	8400	4/28/85	0	0	1.2	2.4
CCC CAMP	7000	4/29/85	10	4.0	13.2	9.0
CHRISTINA LK. SNOTEL	9980	5/01/85	---	10.8	18.5	—
CLOUD PEAK	9850	4/25/85	36	10.0	—	15.7
CLOUD PEAK SNOTEL	9850	5/01/85	---	12.3	20.7	—
COTTONWOOD LK. SNOTEL	7600	5/01/85	---	9.4	23.1	—
COULTER CREEK SNOTEL	7020	5/01/85	---	11.4	—	—
DEEP CREEK	7880	4/30/85	13	5.8	—	9.2
DEEP LAKE	10500	4/27/85	108	41.0	50.2	46.8
DINWOODY SNOTEL	10160	4/30/85	26	8.2	12.6	13.8
DOME LAKE SNOTEL	10000	5/01/85	---	0	9.5	—
DOME LAKE SNOTEL	8880	4/29/85	25	7.8	15.6	12.7
DU NOT	8760	5/01/85	---	8.1	19.0	—
EAST ENTRANCE	6960	4/30/85	7	2.2	7.3	7.9
EAST RIM DIVIDE	7930	4/25/85	0	.0	3.0	—
ELKHART PARK G.S.	9400	4/27/85	27	9.0	13.0	14.8
ELKHART PARK SNOTEL	9400	5/01/85	---	5.4	13.9	—
ELKHORN	8860	4/29/85	58	28.6	30.4	—
Evening Star SNOTEL	9200	5/01/85	---	24.9	—	—
FOX PARK	9060	4/29/85	6	3.4	10.5	5.8
GENEVA PASS	9400	4/25/85	35	10.5	—	20.7
GEYSER CREEK	8500	4/28/85	6	1.8	6.0	—
GRANNIER MEADOWS	8860	4/27/85	23	8.6	18.3	16.1

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
GRASSY LAKE						
GRASSY LAKE SNOTEL						
GREYS BOUNDARY						
GROS VENTRE SUMMIT						
GROS VENTRE SNOTEL						
GROVER PARK DIVIDE						
HATPIN TORN						
HANSEN S.M. SNOTEL						
HASKINS CREEK						
HOBBS PARK						
HOBBS PARK SNOTEL						
INDIAN GREEK SNOTEL						
IRISH ROCK SNOTEL						
LA BONTE						
LA PRELE SNOTEL						
LARSEN CREEK						
LENTS LAKE DIVIDE						
LEWIS LAKE SNOTEL						
LIBERTY LODGE						
LITTLE WARM SNOTEL						
LOOMES PARK						
LOOKOUT PARK SNOTEL						
LOST CREEK SNOTEL						
LUPINE CREEK						
MARQUETTE CREEK						
MARQUETTE CREEK SNTL						
MEDICINE LODGE LAKES						
MIDDLE FORK						
MIDDLE PIONEER SNOTEL						
MIDDLE PIONEER SNOTEL						
Moss Lake						
MUDGY CREEK G.S.						
NEW YORK LAKE						
NORRIS BASIN (OLD)						
NORRIS BASIN (NEW)						
NORTH BARRETT CREEK						
N-FRENCH CREEK SNOTEL						
OLD BATTLE						
OLD BATTLE SNOTEL						
OLD FAITHFUL						
ONION GULCH						
OWL CREEK						
NORWOOD CREEK SNOTEL						
PARKERS PEAK SNOTEL						
PHILLIPS BENCH						
PHILLIPS BENCH SNTL						
POCKET CREEK						
POISON MEADOWS						
POLE MOUNTAIN						
POWDER RIVER PASS						
POWDER RIVER PASS SNTL						

SNOW COURSE	ELeVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-60
PURGATORY GULCH	8970	4/30/85	26	10.7	18.0	11.7
RANGER CREEK	8120	4/25/85	11	3.2	8.9	9.7
RENO HILL SNOTEL	8500	4/30/85	—	6.8	19.4	—
ROCK CREEK	9980	4/28/85	75	29.6	38.6	32.0
RODY CREEK	8300	4/26/85	51	18.2	18.4	21.6
RYAN PARK	9350	4/25/85	18	5.9	16.5	9.2
SALT RIVER SUMMIT	7700	4/29/85	15	5.2	15.8	14.5
SALT RIVER SNOTEL	7700	5/01/85	—	2.1	14.6	—
SAND LAKE SNOTEL	10090	4/30/85	—	31.5	43.3	—
SANDSTONE R.S.	8150	4/30/85	17	7.9	21.1	—
SAWMIL DIVIDE	9260	4/29/85	41	12.2	22.2	16.7
SHELL CREEK	9580	4/25/85	51	12.9	16.6	17.6
SHELL CREEK SNOTEL	9580	5/01/85	—	15.3	18.1	—
SHERIDAN R.S., NEW	7720	4/28/85	0	0	10.0	7.7
SNIKER BASIN R.S.	8060	4/30/85	3	8.8	3.9	4.5
SNIKER BASIN SNOTEL	8060	5/01/85	22	8.1	16.0	15.5
SNOW KING MTN	7660	4/30/85	20	7.1	11.6	13.4
SOLDIER PARK	8780	4/23/85	0	0	10.0	7.7
SOUR DOUGH	8460	4/7/3/85	0	0	8.9	7.7
SOUTH BRUSH CRK, SNTL	8440	4/30/85	—	9.7	21.4	—
SOUTH PASS	9040	4/29/85	33	10.5	20.1	19.1
SOUTH THOMAS FORK	7840	4/29/85	—	6.9	11.5	—
SPRING CRK., SNOTEL	9000	5/01/85	—	6.8	13.6	—
ST. LAWRENCE R.S.	8940	4/30/85	0	0	17.8	26.4
ST. LAWRENCE SNOTEL	8950	5/01/85	—	4.3	12.0	8.3
ST. LAWRENCE IT SNTL	8620	5/01/85	—	4.4	14.5	—
SUCKER CREEK	8880	4/30/85	24	8.1	19.8	16.2
SUCKER CREEK SNOTEL	8880	5/01/85	—	8.1	17.5	—
SYLVAN LAKE SNOTEL	8420	4/30/85	0	0	21.2	—
SYLVAN PASS	7100	4/30/85	0	0	4.5	9.6
T-CROSS RANCH	7900	4/28/85	1	4.4	2.6	4.3
TETON PASS H.S.	7740	4/29/85	55	24.6	28.4	29.5
TIMBER CREEK	7950	4/28/85	0	0	8.7	4.3
TOCHOTEE PASS	9580	4/30/85	56	22.0	30.4	33.8
TOCHOTEE PASS SNOTEL	9580	5/01/85	—	19.9	26.5	—
THOMSEN CREEK	8700	5/02/85	0	.0E	15.5	—
THOMSEN CREEK SNOTEL	8700	5/01/85	—	4.1	15.9	—
TRIPLE PEAKS	8500	4/30/85	44	20.6	25.2	27.4
TROUT CREEK SNOTEL	8400	5/01/85	—	8.9	—	—
THO OCEAN SNOTEL	9160	5/01/85	—	26.4	26.8	—
TYRELL RANGER STA.	8300	4/25/85	12	3.0	7.3	9.2
TYRELL RANGER STA.	6520	4/29/85	0	0	15.5	7.0
WARREN PEAK	6520	5/01/85	—	0	—	—
WARREN PEAK SNOTEL	6520	5/01/85	—	0	—	—
WEBER SPRING	9250	4/25/85	44	18.2	29.1	20.7
WEBER SPRING SNOTEL	9250	4/30/85	—	22.2	28.4	—
WHISKEY CREEK	8950	4/29/85	70	30.2	35.1	—
WILLOW CREEK SNOTEL	8950	5/01/85	—	21.0	42.6	—
WINDY PEAK SNOTEL	7900	4/30/85	—	12.4	—	—
WOLVERINE	7650	4/29/85	14	4.6	6.5	11.4
WOLVERINE SNOTEL	7650	5/01/85	—	3.2	6.1	—
WOOD ROCK G.S.	8440	4/29/85	34	9.9	14.8	13.7
YOUNTS PEAK	8350	4/30/85	33	10.0	—	—

SNOW COURSE	ELeVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
COLORADO						
CAMERON PASS	10300	4/30/85	72	30.0	34.4	32.1
CHAMBERS LAKE	9000	4/30/85	2	.7	9.2	6.8
COLUMBINE LODGE	9300	4/26/85	47	20.1	25.6	21.6
DEADMAN HILL	10200	5/01/85	51	17.7E	22.6	18.0
ELK RIVER #2	8600	4/25/85	40	14.9	21.5	16.7
GRAND LAKE	8600	4/25/85	18	5.7	9.9	5.8
JOE WRIGHT	10000	4/30/85	70	28.0	35.8	28.7
MCINTYRE	9100	4/28/85	26	8.0	14.9	10.8
NORTHGATE	8500	4/23/85	16	4.1	10.3	4.3
RABBIT EARS	9550	4/26/85	76	30.0	37.0	28.0
DARBY CANYON	8250	4/29/85	52	21.8	28.1	23.2
FREDS MOUNTAIN	8000	5/01/85	—	21.7E	21.8	25.4
INDIAN MEADOWS	8420	4/29/85	70	33.3	43.4	38.8
JACARINE CREEK	7350	4/29/85	40	18.5	23.2	21.7
IDAHO						
BLACK BEAR	7950	4/26/85	90	39.3	40.4	44.8
BLACK BEAR BUTYL	7950	5/01/85	—	35.2	36.9	38.8
COOKE STATION	8150	4/30/85	42	16.2	16.6	22.2
FISHER CREEK	9100	4/30/85	79	32.1	34.4	44.5
FISHER CREEK BUTYL	9100	5/01/85	—	28.1	31.4	40.7
MADISON PLATEAU	7750	4/25/85	59	15.6	21.8	23.6
NORTHEAST ENTRANCE	7350	4/30/85	4	1.6	4.1	7.3
N.E. ENTRANCE BUTYL	7350	5/01/85	—	0	5.5	5.3
TWENTY-ONE MILE	7150	5/02/85	20	7.6	12.9	17.2
WEST YELLOWSTONE	6700	5/02/85	13	5.0	7.5	8.3
WEST YELLOWST BUTYL	6700	5/02/85	—	3.2	6.4	6.9
WHITE HILL	8700	4/29/85	58	23.1	24.3	31.5
WHITE HILL BUTYL	8700	5/01/85	—	22.8	21.9	27.1
UTAH						
BLACK'S FORK	9200	4/26/85	15	4.7	20.8	11.7
BLACK'S FORK JUNCTN	8930	4/26/85	16	3.7	11.8	8.3
BURD'S MILLER RANCH	7900	4/26/85	2	.4	4.3	2.4
HADDEN FORK	9400	4/26/85	30	10.7	18.2	16.2
HEINTA G.S.	9300	4/26/85	25	7.1	13.6	10.1
HICKERSON PARK	9100	4/26/85	29	3.8	13.3	6.1
MONTE CRISTO R.S.	8830	4/25/85	51	20.1	29.8	26.8
SPRITZ LAKE	10300	4/26/85	51	11.4	18.2	15.6
STEEL CREEK PARK	10100	4/26/85	58	16.6	22.5	18.5
STILLWATER CAMP	8350	4/26/85	9	2.6	10.6	8.4
TRAIL LAKE	9960	4/26/85	54	23.2	31.7	26.1

THE FOLLOWING ORGANIZATIONS COOPERATE
WITH THE SOIL CONSERVATION SERVICE
IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming
State Engineer of Wyoming
Department of Water Resources of Nebraska
Irrigation Districts of Wyoming
University of Wyoming
Department of Atmospheric Resources
Department of Agricultural Engineering

Federal

U.S. Department of Agriculture
Soil Conservation Service
Forest Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service
Bureau of Indian Affairs
Bureau of Land Management

Private

Utah Power and Light Company
Eden Valley Irrigation District

Other organizations and individuals furnish information for the
snow survey reports. Their cooperation is gratefully acknowledged.